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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,409	01/03/2002	Michael Allen Yudkowsky	42390p13063	7057
8791	7590 08/26/20	004	EXAMINER	
	SOKOLOFF TAY	ARMSTRONG, ANGELA A		
SEVENTH FLOOR LOS ANGELES, CA 90025-1030			ART UNIT	PAPER NUMBER
			2654	

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/038,409	YUDKOWSKY, MICHAEL ALLEN				
Office Action Summary	Examiner	Art Unit				
	Angela A. Armstrong	2654				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 MONTH	S) FROM				
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reg. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuly any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 3/0	1/2004 and 6/21/2004.					
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, 						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4) Claim(s) 1-31 is/are pending in the application						
4a) Of the above claim(s) is/are withdra	awn from consideration.					
5) Claim(s) is/are allowed.	2.20					
6)⊠ Claim(s) <u>1-31</u> is/are rejected.	☑ Claim(s) <u>1-31</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre						
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:						
 Certified copies of the priority documer 						
Certified copies of the priority documer						
3. Copies of the certified copies of the pri		ed in this National Stage				
application from the International Bure						
* See the attached detailed Office action for a lis	st of the certified copies not receive	30.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

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DETAILED ACTION

Response to Amendment

As per applicant's request a new Office Action addressing applicant's arguments filed March 1, 2004, is provided.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-12 and 14-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Goronzy et al (EP 1022725 A1).

Goronzy discloses a system for the selection of acoustic models using speaker verification.

2. Regarding claim 1, Goronzy discloses determining an identity of a speaker through a network over which output data, including identification information, is provided to one or more speech-recognition systems, at col. 3, lines 1-9 and 35-46, since the networked system (col. 3, lines 2-3) checks the identity of the speaker every time the speaker changes, which requires use of some form of identification information to output to the verification module (4). Additionally, Goronzy discloses attempting to locate, based on the identity of the speaker, a voice model for speaker, at col. 3, lines 53-58; and retrieving from a storage area

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the voice model for the speaker if the voice model for the speaker is located, at col. 3, line 53 continuing to col. 4, line 2.

Regarding claim 2, Goronzy discloses the voice model comprises a speaker dependent voice model at col. 3, line 53 continuing to col. 4, line 2.

Regarding claim 3, Goronzy discloses wherein determining the identity of the speaker over the network comprises using identification information received from the speaker over the network to determine the identity of the speaker, at col. 3, line 1 continuing to col. 4, line 2.

Regarding claim 4, Goronzy discloses receiving from a device in the network identifying data regarding the speaker, at col. 3, line 39 continuing to col. 4, line 2; determining the identity of the speaker based on the identifying data regarding the speaker, at col. 3, line 39 continuing to col. 4, line 2.

Regarding claim 5, Goronzy discloses wherein the storage area comprises an internal storage area containing speaker-dependent voice models for multiple persons, at col. 3, line 58 continuing to col. 4, line 2.

Regarding claim 6, Goronzy discloses wherein the storage area comprises an external storage area accessible over the network, at col. 3, line 58 continuing to col. 4, line 2.

Regarding claim 7, Goronzy discloses wherein the output data comprise phonemes, at col. 3, line 39.

Regarding claim 8, Goronzy discloses receiving an utterance from the speaker at col. 3, lines 39-43; using the voice model to extract phonemes from the utterance at col. 3, lines 39-52; and transmitting the phonemes over the network to the speech-recognition system, at col. 3, lines 39-43.

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Regarding claim 9, Goronzy discloses wherein the utterance comprises one or both of the vocalized words and vocalized sounds, at col. 3, lines 39-43.

Regarding claim 10, Goronzy discloses receiving from the speech recognition system contents of a recognized utterance of the speaker, at col. 3, lines 43-58; revising the voice model for the speaker based on the contents of the recognized utterance, at col. 3, lines 53-58; col. 4, lines 30-40.

Regarding claim 11, Goronzy discloses wherein the output data comprise a voice model for the speaker, at col. 3, lines 53-58; col. 4, lines 30-40.

Regarding claim 12, Goronzy discloses further comprising transmitting the voice model over the network to the speech-recognition system, at col. 3, lines 53-58.

Regarding claim 14, Goronzy discloses retrieving a speaker-independent voice model if failing to locate the voice model for the speaker, at col. 4, lines 30-40; receiving an utterance from the speaker, at col. 4, lines 19-21; using the speaker-independent voice model to extract phonemes from the utterance, at col. 3, lines 53-58; transmitting the phonemes over the network to a speech-recognition system, at col. 3, lines 43-52; receiving from the speech-recognition system contents of a recognized utterance of the speaker, at col. 3, lines 46-58 and col. 4, lines 17-40; and generating a voice model for the speaker based on the contents of the recognized utterance, at col. 4, lines 17-40.

Regarding claims 15-30 claims 15-30 are similar in scope and content to claims 1-12 and 14 and are therefore rejected under similar rationale.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goronzy in view of
 Ellis et al, "Tandem Acoustic Modeling in Large Vocabulary Recognition", (ICASSP '01).
 2001 IEEE International Conference on Acoustics, Speech, and Signal Processing, 2001
 Proceedings, vol. 1, pages 517-520.
- 4. Regarding claim 13, Goronzy does not specifically teach implementation of Aurora feature extraction. However, implementation of Aurora features was well known in the art.

In a similar field of endeavor, Ellis teaches a system of tandem acoustic modeling in a large vocabulary recognition system, and specifically describes the advantages of using Aurora data in a recognition system since the system involves recognizing data in a wide range of noisy backgrounds.

Therefore, it would have been obvious to one of ordinary skill at the time of the invention to modify the system of Goronzy to implement Aurora feature processing, for the purpose of providing a recognition system that is able to recognize data in noisy backgrounds, as taught by Ellis.

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Response to Arguments

5. Applicant's arguments filed March 1, 2004 have been fully considered but they are not persuasive.

Regarding claims 1, 18, and 28, applicant argues claims 1, 18, and 28, as amended, require a method, article of manufacture, and apparatus including, inter alia, "determining an identity of a speaker through a network over which output data including identification information is provided to one or more speech-recognition system" and argues Goronzy fails to disclose at least the above quoted element of independent claims 1, 18, and 28. The Examiner disagrees and argues Goronzy discloses determining an identity of a speaker through a network over which output data, including identification information, is provided to one or more speech-recognition systems, at col. 3, lines 1-9 and 35-46, since the networked system (col. 3, lines 2-3) checks the identity of the speaker every time the speaker changes, which requires use of some form of identification information to output to the verification module (4).

Regarding claims 2-12, 14, and 18-30, the examiner contends Goronzy teaches the limitations of claims 1, 18, and 28, as indicated in the rejection and arguments above.

Additionally, Goronzy teaches the limitations/elements of dependent claims 2-12, 14, and 18-30, as indicated in the rejection above.

Regarding claim 15, Applicant argues claim 15 requires a method including, inter alia, "accessing by a speaker a network containing a speech recognition system" and argues Goronzy fails to disclose the quoted element of independent claim 15. The Examiner disagrees and argues Goronzy discloses determining an identity of a speaker through a network over which output data, including identification information, is provided to one or more speech-recognition

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systems, at col. 3, lines 1-9 and 35-46, since the networked system (col. 3, lines 2-3) checks the identity of the speaker every time the speaker changes, which requires use of some form of identification information to output to the verification module (4).

Regarding claims 16 and 17, the examiner contends Goronzy teaches the limitations of independent claim 15 as indicated in the rejection and arguments above. Additionally, Goronzy teaches the limitations/elements of dependent 16 and 17, as indicated in the rejection above.

Regarding claim 13, applicant argues Ellis fails to teach or suggest the "determining an identity of a speaker through a network over which output data including identification information is provided to one or more speech-recognition system" limitation of claim 1. The examiner argues Goronzy teaches the claim limitation, as indicated in the rejection and arguments regarding independent claim 1 above.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Angela A. Armstrong whose telephone number is 703-308-6258.

The examiner can normally be reached on Monday-Thursday 7:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richemond Dorvil can be reached on (703) 305-9645. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Angela A. Armstrong

Examiner

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AAA

August 23, 2004

RICHEWOND DORVIL

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SUPERVISORY PATENT EXAMINER